

**Claims:**

1. A primer composition for release papers and  
5 release films, comprising  
I) at least one silane-containing polyvinyl  
alcohol based on fully or partly hydrolyzed vinyl  
ester copolymers having a degree of hydrolysis of  
75 to 100 mol%, obtainable by free-radically  
10 polymerizing  
a) one or more vinyl esters of unbranched or  
branched alkylcarboxylic acids having 1 to 18  
carbon atoms, of which a fraction of 0 to 30 mol%,  
based on total polymer, are one or more 1-  
15 alkylvinyl esters having alkyl radicals having 1  
to 6 carbon atoms and of carboxylic acids having 1  
to 6 carbon atoms,  
b) 0.01 to 10 mol% of one or more silane-  
containing, ethylenically unsaturated monomers,  
20 and if desired  
c) further comonomers copolymerizable therewith,  
and hydrolyzing the resultant polymers, and  
II) at least one reactive silicone from the group  
of the H-siloxanes.  
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2. The primer of claim 1, comprising  
I) at least one silane-containing polyvinyl  
alcohol based on fully or partly hydrolyzed vinyl  
ester copolymers having a degree of hydrolysis of  
30 75 to 100 mol%, obtainable by free-radically  
polymerizing  
a) one or more vinyl esters of unbranched or  
branched alkylcarboxylic acids having 1 to 18  
carbon atoms, of which a fraction of 0 mol%, based  
35 on total polymer, are one or more 1-alkylvinyl  
esters having alkyl radicals having 1 to 6 carbon  
atoms and of carboxylic acids having 1 to 6 carbon  
atoms, and

II) at least one reactive silicone from the group of the H-siloxanes.

3. The primer of claim 1, comprising
- 5 I) at least one silane-containing polyvinyl alcohol based on fully or partly hydrolyzed vinyl ester copolymers having a degree of hydrolysis of 75 to 100 mol%, obtainable by free-radically polymerizing
- 10 a) one or more vinyl esters of unbranched or branched alkylcarboxylic acids having 1 to 18 carbon atoms, of which a fraction of 1 to 30 mol%, based on total polymer, are one or more 1-alkylvinyl esters having alkyl radicals having 1
- 15 to 6 carbon atoms and of carboxylic acids having 1 to 6 carbon atoms, and
- II) at least one reactive silicone from the group of the H-siloxanes.
- 20 4. The primer of claim 1 to 3, characterized in that the silane-containing polyvinyl alcohol is obtained by copolymerization with vinyl acetate.
5. The primer of claim 1, 3 or 4, characterized in
- 25 that one or more 1-alkylvinyl esters from the group consisting of 1-methylvinyl acetate, 1-ethylvinyl acetate, and 1-propylvinyl acetate are copolymerized.
- 30 6. The primer of claim 1 to 5, characterized in that the silane-containing polyvinyl alcohol is obtained by copolymerizing one or more ethylenically unsaturated, silane-containing monomers from the group consisting of
- 35 ethylenically unsaturated silicon compounds of the general formula (I)  $R^1SiR^{2_{0-2}}(OR^3)_{1-3}$ , where  $R^1$  has the definition  $CH_2=CR^4-(CH_2)_{0-3}$  or  $CH_2=CR^4CO_2(CH_2)_{1-3}$ ,  $R^2$  has the definition  $C_1$  to  $C_3$  alkyl radical,  $C_1$  to

- 5 C<sub>3</sub> alkoxy radical, or halogen, R<sup>3</sup> is an unbranched or branched, unsubstituted or substituted alkyl radical having 1 to 12 carbon atoms, or an acyl radical having 2 to 12 carbon atoms, it being possible for R<sup>3</sup> to be interrupted if desired by an ether group, and R<sup>4</sup> is H or CH<sub>3</sub>, and meth(acrylamides) contained silane groups, of the general formula (II) CH<sub>2</sub>= CR<sup>5</sup>-CO-NR<sup>6</sup>-R<sup>7</sup>-SiR<sup>8</sup><sub>m</sub>-(R<sup>9</sup>)<sub>3-m</sub>, where m= 0 to 2, R<sup>5</sup> is either H or a methyl group, R<sup>6</sup> is H or an alkyl group having 1 to 5 carbon atoms; R<sup>7</sup> is an alkylene group having 1 to 5 carbon atoms or a divalent organic group in which the carbon chain is interrupted by an oxygen or nitrogen atom, R<sup>8</sup> is an alkyl group having 1 to 10 5 carbon atoms, R<sup>9</sup> is an alkoxy group having 1 to 40 carbon atoms, which may be substituted by further heterocycles.
- 15 7. The primer of claim 6, characterized in that the silane-containing polyvinyl alcohol is obtained by copolymerizing one or more ethylenically unsaturated, silane-containing monomers from the group consisting of γ-acryloyloxy- or γ-methacryloyloxypropyltri(alkoxy)silanes, α-methacryloyloxymethyltri(alkoxy)silanes, γ-methacryloyloxypropylmethyldi(alkoxy)silanes, vinylalkyldi(alkoxy)silanes and vinyltri(alkoxy)silanes, in which alkoxy groups present may be, for example, methoxy, ethoxy, methoxyethylene, ethoxyethylene, methoxypropylene glycol ether and/or ethoxypropylene glycol ether radicals.
- 20 8. The primer of claim 1 to 7, characterized in that 0.01 to 2.0 mol% of ethylenically unsaturated, silane-containing monomers are copolymerized.
- 25 9. The primer of claim 1 to 8, characterized in that as reactive silicone component II) there are one
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or more present from the group consisting of linear, cyclic or branched organopolysiloxanes composed of units of the general formula (III)  $R_eH_fSiO_{(4-e-f)/2}$ , where e is 0, 1, 2 or 3, f is 0, 1 or 2, and the sum of e + f is  $\leq 3$ , with the proviso that there are on average at least 2 Si-bonded hydrogen atoms, and R is a monovalent, SiC-bonded, unsubstituted or substituted hydrocarbon radical having 1 to 18 carbon atoms.

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10. The primer of claim 9, characterized in that as reactive silicone component II) there are one or more present from the group consisting of organopolysiloxanes of the general formula (IV)  $H_hR_{3-h}SiO(SiR_2O)_o(SiRHO)_pSiR_{3-h}H_h$ , where R has the definition indicated for it above, h is 0, 1 or 2, o is 0 or an integer from 1 to 1500, and p is 0 or an integer from 1 to 200, with the proviso that the organopolysiloxanes of the formula (IV) contain on average at least 2 Si-bonded hydrogen atoms.

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11. The primer of claim 1 to 10, characterized in that the ratio of the silane-containing polyvinyl alcohol component (I) to the silicone component (II) (solids/solids) is from 99 : 1 to 1 : 99.

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12. The use of the primer of claim 1 to 11 in processes for release-coating release papers and release films, where following application of the prime coat to a backing a silicone coat is applied.

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